AM-FM STEREO RECEIVER

KR-V55R
KR-V45

INSTRUCTION MANUAL

KENWOOD

KENWOOD CORPORATION

©PRINTED IN JAPAN B50-8186-00(K)(T)
67/6 5 4 3 2 1 88/12 11 10 9 8 7 6 5

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____ Serial Number_____

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Before operation

Safety precautions

Never remove the case. If the internal parts are touched accidentally, a serious electric shock might occur.

Never touch internal parts.

If a metal object, such as a hair pin or a needle, comes into contact with the power socket on the rear panel, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this unit.

Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster.

Never connect other electrical appliances.

Touching the power plug when your hands are wet may result in a serious electric shock.

Never touch with wet hands.

Never pull, bend or extend the power cord. This could damage the power cord, resulting in a broken cord or short-circuit.

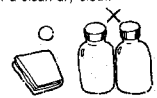
Never pull or stretch the cord.

In case of abnormal smell

If an abnormal smell or smoke is detected, immediately turn the power OFF and pull out the power cord. Contact your dealer or nearest service station.

Cleaning

Do not use volatile solvents such as alcohol, paint thinner, gasoline, benzine, etc. to clean the cabinet. Use a silicone cloth or a clean dry cloth.



Silicone cloth Thinner Benzine

Installation precautions

a) Avoid locations subject to direct sunlight.
b) Avoid high or low temperature extremes.
c) Keep the unit away from heat radiating sources.
d) Choose a location that is relatively free of vibration or excessive dust.
e) Make sure power is off before making any system connections.

Safety precaution for AC plug

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Unit shipped to the U.S.A. is designed for operation on 120 volts AC only.

"Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

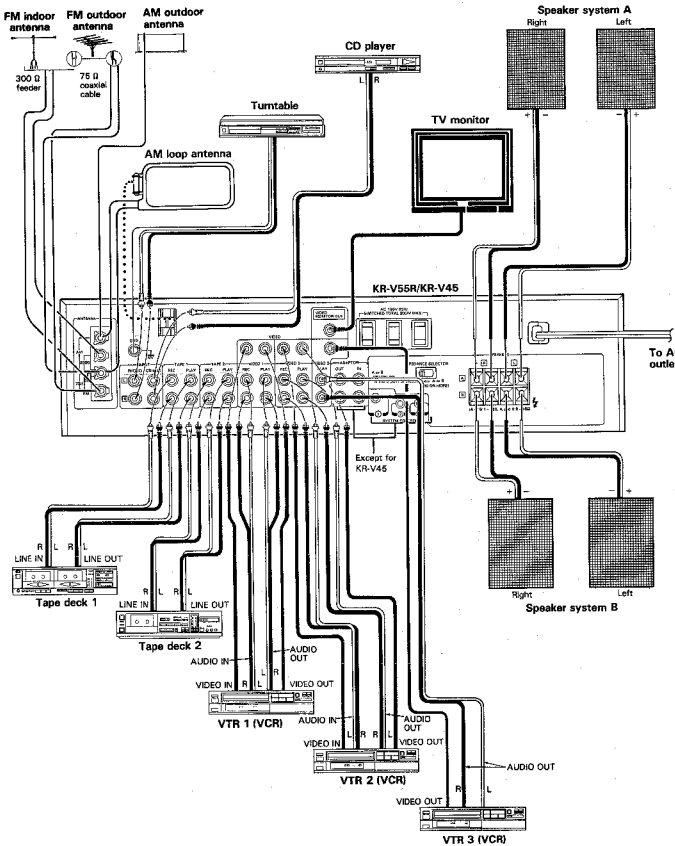
WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

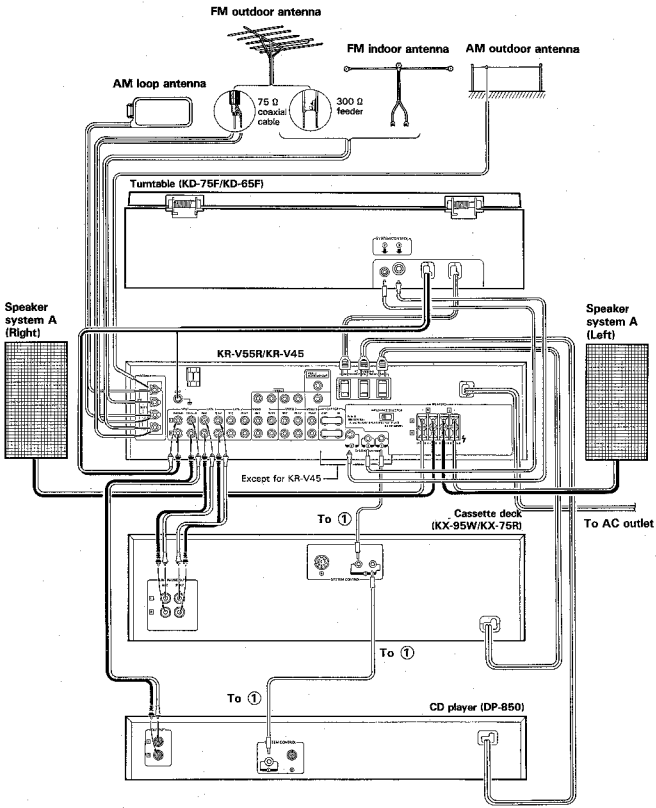
Rear panel safety precautions

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

System connections



Synchro connections



Speakers

This unit has two pairs of speaker terminals, SPEAKERS A and SPEAKERS B.

Connecting one speaker system

Connect speakers rated at 4 ohms or more to the SPEAKERS A terminals.

Connecting two speaker systems

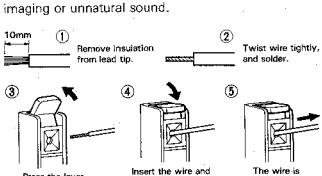
To connect an additional pair of speakers, use the B terminals. In this case, each speaker must be rated at 8 ohms or more.

Connection with speaker cords

1. Connect the left speaker to the L SPEAKERS terminals and the right speaker to the R SPEAKERS terminals.

2. Be careful that wires do not contact adjacent terminals.
3. Be sure to connect the (+) terminal of the speaker to the (+) terminal of the unit.
   Never short the (+) and (−) terminals.

Erroneous connection of speakers may result in poor imaging or unnatural sound.



Speaker lead connection

Setting SPEAKER IMPEDANCE SELECTOR

CAUTION

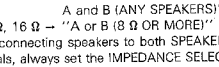
Speaker impedance selector:

When connecting one pair of speakers to the SPEAKERS A or B terminals, set the IMPEDANCE SELECTOR according to the speaker impedance.

4 Ω, 6 Ω → "A or B (BELOW 8 Ω)
A and B (ANY SPEAKERS)"

8 Ω, 16 Ω → "A or B (8 Ω OR MORE)"

When connecting speakers to both SPEAKER A and B terminals, always set the IMPEDANCE SELECTOR to "A or B (BELOW 8 Ω), A and B (ANY SPEAKERS)".



Notes:

1. During speaker system connection and operation of SPEAKER IMPEDANCE SELECTOR, set the POWER switch to OFF.
2. Check that the connected lead wires of the speaker systems do not contact with other jacks or terminals.

Turntable

The PHONO jacks of the unit can accept a turntable with an MM type phono-cartridge.

Your stereo turntable has RCA pin-plug cord that is terminated with phono plugs. Plug the left channel plug into the L and the right channel plug into the R PHONO jacks.

If the turntable has a ground wire, connect it to the unit's GND terminal to avoid hum.

CD/AUX

To these jacks, high-level signal sources such as, CD player, tuner, extra tape decks, TV, VTR sound outputs, etc. can be connected.

ADAPTOR terminals (Except for KR-V45)

When the ADAPTOR terminals are not used in normal operation, insert shorting pins. (Be sure to short-circuit across IN and OUT using two shorting pins.) Even when the ADAPTOR terminals are not used, this unit cannot output power when these shorting pins are not inserted.

The ADAPTOR terminals are provided for the connection of external equipment such as an audio/video selector, graphic equalizer, reverberation amplifier and AV surrond processor.

When an AV surround processor (SC-75) is connected, the volume of the AV surround processor can be controlled using the remote control unit provided.

Ground

For maximum safety and minimum interference connect the GND terminal to a good earth ground if practicable. A good earth ground is a cold water pipe or a metal stake driven into moist earth. However, never use a gas pipe for this purpose.

Tape decks

If only one tape deck is to be connected to the system it is recommended that it be connected to the jacks marked TAPE 1. (If your tape deck is equipped with a 3 head system, connect to the jacks marked TAPE 2. The simultaneous monitoring can be possible.)

Tape deck input and output cables are normally terminated with phono plugs.

Playback

Plug the left and right output cables of the tape deck into the L and R TAPE 1 PLAY jacks.

Record

Plug the left and right input cables of the tape deck into the L and R TAPE 1 REC jacks.

Second tape deck

Plug the input and output cables from the second tape deck into the REC and PLAY jacks marked TAPE 1 or 2.

VCR (VIDEO/AUDIO) jacks

Three video recorders can be connected to the VIDEO 1, VIDEO 2 and VIDEO 3 (VDP) jacks.

Connect the unit's VIDEO PLAY jack to the video recorder's video output terminal (VIDEO 1, VIDEO 2 and VIDEO 3 jacks), the VIDEO REC jack to the video input terminal (VIDEO 1 and VIDEO 2 jacks), the AUDIO PLAY L jack to the left audio output terminal, AUDIO PLAY R jack to the right audio output terminal (VIDEO 1, VIDEO 2 and VIDEO 3 jacks), AUDIO REC L jack to the left audio input terminal, and the AUDIO REC R jack to the right audio input terminal (VIDEO 1 and VIDEO 2 jacks).

VIDEO MONITOR OUT jack

Video monitor can be connected to the VIDEO MONITOR OUT jack. (The video monitors or TVs should be equipped with video input terminals.)

SYSTEM CONTROL terminal (Except for KR-V45)

When the KD-75F/KD-65F (turntable), KX-95W/KX-75R (tape deck) or DP-850 (CD player) are used in connection with the receiver, they can be operated from the remote control unit of the receiver when their synchro terminals are connected to the SYSTEM CONTROL terminals. (Ordinary audio cable connections are also required.) For details, refer to the operating instructions for the remote control unit on page 13.

AM antennas

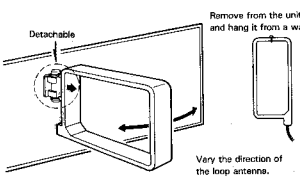
AM loop antenna

Tune in your favorite AM station and position the loop antenna for best reception. Try other stations and find the position that gives best overall reception. When this unit is mounted in a rack or placed on a shelf with insufficient space behind, remove the loop antenna and hang it from a wall in the direction which gives best reception.

If the length of the lead wire is too short, add a lead wire of an appropriate length.

Note:

If beat noise occurs during AM reception, remove the AM loop antenna from the unit.



AM loop antenna setting

AM outdoor antenna

In steel buildings or at a great distance from the transmitter, it may be necessary to install an outside long wire antenna. The end of this wire should be stripped of insulation and connected to the AM terminal. At this time, keep the loop antenna connected.

FM antennas

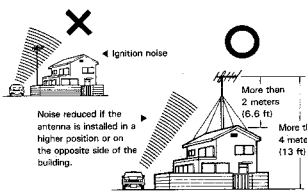
Your unit approaches the theoretical limit in FM sensitivity. However, the performance of your system is determined to a very large extent upon the signal conditions where the antenna is placed. The reason is that FM broadcast signals travel in straight paths. Therefore they can be blocked by natural or man-made obstructions such as mountains, hills, or buildings. At large distances from the transmitter the curvature of the earth acts as a screen between transmitter and receiver.

Consider the signal conditions in planning your installation. If you live in or near an urban area the indoor antenna (supplied) may serve your needs adequately. However, if favorite stations are weak due to natural obstructions, or if you live in a building which is made of steel-reinforced concrete (which acts as a shield) it may be necessary to install a good outdoor antenna.

FM outdoor antenna

Consult with your dealer or service man about the best method of selecting and erecting an outdoor FM antenna.

The choice of lead-in (feeder) wire is also important. The flat ribbon-shaped twin lead performs well electrically, is cheaper and is somewhat easier to handle in routing through windows and around rooms. Coaxial cable is more expensive, does a much better job of minimizing interference, is less prone to the effects of weather and close-by metal objects, and is nearly as good a signal conductor as the ribbon type wire. The latter is particularly true of foam-type coaxial cables. Coaxial cable is somewhat more difficult to install at the point where the cable enters the building. if coaxial cable is selected, make sure the antenna is designed to drive that type of cable.


Ignition noise
More than 2 meters (6.6 ft)
Noise reduced if the antenna is installed in a higher position or on the opposite side of the building.
More than 4 meters (13 ft)

FM outdoor antenna setting

FM indoor antenna

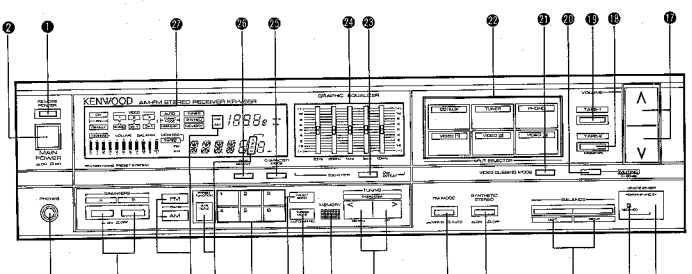
Connect the T-shaped indoor antenna (supplied) to the 300 Ω FM ANTENNA terminals as shown in the system connections diagram. Spread the two arms that form the top of the "T" horizontally and hold them against convenient wall surfaces. Try several locations for best results on your favorite stations. Tape the antenna in place where the best compromise is found between listening results and appearance.

AC outlets (SWITCHED outlets)

The AC outlets on the rear panel of the unit may be used to supply power to other components in the system, such as turntables, tape decks, etc. Never connect equipment whose power consumption exceeds the maximum value shown at each outlet.

The maximum total capacity is 200 watts.

Controls, indicators and connectors



❶ REMOTE POWER switch (Except for KR-V45)
By pressing this switch with the MAIN POWER switch set to ON, the power of the unit and the power of the equipment connected to the SWITCHED AC outlet can be switched ON/OFF.
When this switch is pressed, the function selected last or the last station to be received will be displayed. You can operate the switch from a distance with the RC-65 (remote control unit).

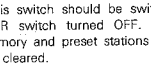
❷ MAIN POWER switch (KR-V55R), POWER switch (KR-V45)
Press this switch to turn on main power (POWER). (The POWER STAND BY ⓲ indicator lights.) Press it again to turn main power (POWER) off. (Except for KR-V45)

❸ PHONES jack
Stereo headphones are plugged into this jack.

❹ SPEAKERS switch
A, B OFF — This position silences all speakers to permit private use of headphones.
A ON — Activates speakers connected to the SPEAKERS A terminals on the rear panel.
B ON — Activates speakers connected to the SPEAKERS B terminals on the rear panel.
A, B ON — Activates speakers connected to the SPEAKERS A and B terminals simultaneously.

❺ BAND selector buttons
FM — For FM broadcasts (The FM indicator lights.)
AM — For AM broadcasts (The AM indicator lights.)

❻ PRESET FUNCTION button
Each time this button is pressed, PRESET FUNCTION mode A and B is selected alternately (at this time, A or B indicator lights in the display window).
In either FM or AM, 6 stations can be stored into A and B respectively, by frequency and station name. In total, frequencies and station names of up to 12 stations can be preset with this unit.
By switching the Preset Function selector on the bottom of this unit (the above mode is selected at the factory), each time the PRESET FUNCTION button is pressed, the function mode is selected in the order of A, B, C and D. (The A, B, C or D indicator lights accordingly in the display window.)
In this mode, either FM or AM 6 stations can be preset for each A, B, C and D channel. In total, up to 24 stations frequencies can be stored in memory. (In this case, the station names cannot be stored.)
<On the bottom>
Before operating the PRESET FUNCTION button, set this switch (PRESET FUNCTION SELECTOR) to "12" or "24". This switch should be switched with the MAIN POWER switch turned OFF. Station names stored in memory and preset stations stored before switching are cleared.



❼ PRESET (numeric) buttons
Used to store and recall frequencies/station names in the preset memory.

⑧ PRESET SCAN button
Use this button for preset channel scanning.
When a frequency and station name stores in the preset memory is being received, pressing this button shifts the reception to the next frequency and station name stored in the preset memory. (The preset channels are scanned in the order A-I, ..., A6, B-I, ..., B-6.) (When the PRESET FUNCTION selector setting is changed on the bottom of the unit the preset channels are scanned in the order A-1, ..., A-6, B-1, ..., B6, C-I, ..., C-6, ..., D-1. ...., D-6.)

⑨ TUNING MODE (AUTO/MANU.) buttons
Each press alternates auto tuning and manual tuning modes.

⑩ MEMORY button
When the input mode is in tuner mode, use this button to store new frequencies and station names in the preset channel memory. By pressing the MEMORY button, setting the PRESET FUNCTION button to A or B (When the PRESET FUNCTION selector on the bottom of this unit is changed, A, B, C or D.), and by pressing one of the PRESET channel buttons, the frequency being received is stored in memory in the PRESET channel button pressed.

⑪ UP/DOWN TUNING buttons
Auto tuning mode — When the UP or DOWN button is pressed, the frequency automatically increases or decreases until the next station of sufficient signal strength is reached.
Manual tuning mode — Each time the UP or DOWN button is pressed, the tuned frequency increases or decreases in the following manner.
FM — 100 kHz steps
AM — 10 kHz steps
If either button is held down more than half a second, the tuned frequency will continue to increase or decrease until the button is released.
* These buttons are used also for selecting alphabet when storing the station names after pressing the CHARACTER MODE button.

⑫ FM MODE button
(⊓) **AUTO** — The unit switches automatically between stereo and monaural operation in accordance with the manner in which the selected station is operating. In addition, noise is silenced as you tune between stations.
(⎓) **MONO** — Provides monaural operation regardless of the manner of transmission.

⑬ SYNTHETIC STEREO switch
Press this switch to give the pseudo stereo effect to the monaural source.

⑭ BALANCE controls
Governs the amount of sound coming from each paired speakers to get optimum stereo effect.
Pressing the RIGHT button will decrease the left channel volume and pressing the LEFT button will decrease the right channel volume. When the BALANCE controls is pressed, display window shows the BALANCE indicator.

⑮ POWER STAND BY indicator (Except for KR-V45)
Lights when the MAIN POWER switch is set to ON.

⑯ REMOTE SENSOR (Except for KR-V45)
Point the supplied remote control unit towards this sensor and operate.

⑰ VOLUME controls
This control adjusts the left- and right-channel volumes simultaneously. Set it for the desired listening level. Pressing the up (Λ) button increases the volume and pressing the down (V) button decreases it.

Note:
A slight noise is heard from the speakers when operating the VOLUME controls. This noise is the built-in microprocessor control signal and is not a fault.

⑱ TAPE 2 button
Press this button to play back a tape deck connected to the TAPE 2 jacks. (The TAPE-2 switch is operated in priority to any other audio input systems.)

⑲ TAPE 1 button
Press this button to play back a tape deck connected to TAPE 1 jacks.

⑳ MUTING button
When the muting button is pressed, the MUTING indicator in the display window will flash, and the overall listening sound level is reduced by 20 dB.
When the button is pressed again, you can restore exactly the same listening level as before.

㉑ VIDEO DUBBING MODE button
Each time this button is pressed, the display window indication is changed in the order "AUDIO", "2 ► 1", "3 ► 1".
"AUDIO" — Set to this position when video dubbing is not required. (Refer to page 11.)
"2 ► 1" — Regardless of the other switch settings, dubbing from the VCR connected to the VIDEO 2 jacks on the rear panel of this unit to VCR connected to VIDEO 1 jacks can be performed directly.
"3 ► 1" — Regardless of the other switch settings, direct dubbing from the VCR connected to the VIDEO 3 jacks on the rear panel of this unit to the VCR connected to the VIDEO 1 jacks can be performed.

㉒ INPUT SELECTOR buttons
PHONO — Selects the program source played on the turntable.
TUNER — Selects the tuner mode.
CD/AUX — Selects the source connected to the CD/AUX jacks.
VIDEO 1 — Selects the video recorders connected to the VIDEO 1 jacks.
VIDEO 2 — Select the video recorders connected to the VIDEO 2 jacks.

VIDEO 3 — Select the video recorders connected to the VIDEO 3 jacks.

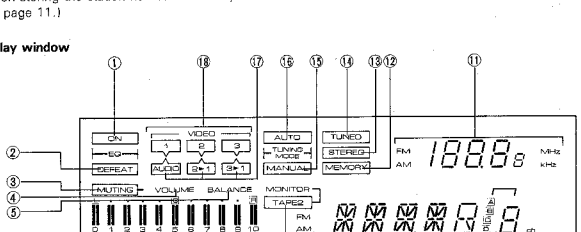
㉘ EQUALIZER switch
Turn this switch to ON and the frequency characteristic will be modified by passing through the graphic equalizer. In the DEFEAT position, the frequency characteristic remains unchanged.
The DEFEAT indicator in the display window lights when the switch is set to DEFEAT.

㉙ EQUALIZER LEVEL controls
Adjust these controls up and down to equalize the sound by ±12 dB to the center frequency indicated.

㉚ CHARACTER MODE button
Press when storing the station names in memory.
(Refer to page 11.)

㉛ DIGIT SELECT button
Press when storing the station names in memory.
(Refer to page 11.)

㉗ Display window



① Lights when the EQUALIZER switch is set to "ON".
② Lights when the EQUALIZER switch is set to "DEFEAT".
③ Lights when the MUTING button is pressed.
④ Lights except when the BALANCE controls are pressed.
⑤ Lights when the BALANCE control is pressed.
⑥ Displays the volume level when the VOLUME indicator lights, and displays the volume balance between left and right when the BALANCE indicator lights.
⑦ Light when the TAPE-2 button is pressed.
⑧ Displays the tuner input mode. "FM" lights during FM broadcast reception and "AM" lights during AM reception.
⑨ Displays the input mode or the preset station name.
⑩ Displays the preset channels.
⑪ Displays the digital frequency display.
⑫ In tuner mode, lights when a station is tuned in by memory selection.
⑬ In tuner mode, lights when a stereo broadcast is tuned in.
⑭ In tuner mode, lights when a station is tuned in.
⑮ In tuner mode, lights during manual tuning.
⑯ In tuner mode, lights during auto tuning.
⑰ By pressing the VIDEO DUBBING MODE button, lights in the order "AUDIO", "2 ► 1", "3 ► 1".
⑱ When the INPUT SELECTOR "VIDEO 1", "VIDEO 2" or "VIDEO 3" is pressed, the corresponding indicator lights.
This display shows the video monitor output level. It is always displayed showing the latest condition of VIDEO 1, 2 or 3.

Operating instructions

Listening to AM/FM broadcasts

First set the MAIN POWER switch to ON, then the REMOTE POWER switch to ON. (With KR-V45, set the POWER switch to ON.) Press the TUNER button of the INPUT SELECTOR: "TUNER" and digital display are displayed in the display window. Next press the FM or AM button of the BAND selector. When FM is pressed, select also MONO or AUTO of the FM MODE buttons.

Auto tuning

1. Press the TUNING MODE button to set to "AUTO".
2. Press the UP or DOWN TUNING button: The frequency will automatically increase or decrease until a station with sufficient signal level is received. To stop the frequency scanning before a station is received, press the TUNING MODE button to set to "MANU.".
3. Adjust the VOLUME controls as preferred.

Manual tuning

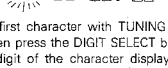
1. Press the TUNING MODE button to set to "MANU.".
2. Press the UP/DOWN TUNING buttons to tune in the desired station.
   To continuously increase or decrease frequencies, hold the button depressed.
3. Adjust the VOLUME controls for your preference.

Presetting broadcast stations

In a total of 12 AM and FM stations can be preset.

1. Select the desired station with either auto tuning or manual tuning.
2. Input the broadcast station name. (when the PRESET FUNCTION selector on the bottom of this unit is switched so that 24 stations can be preset, the station names cannot be stored in memory.)
   For the broadcast station names, up to 4 characters can be input.

(1) Press the CHARACTER MODE button.
(The 1st digit of character display blinks.)
In this condition, pressing the CHARACTER MODE button resumes the character display to "TUNER".



(2) Input the first character with TUNING UP/DOWN button, then press the DIGIT SELECT button.
(The 1st digit of the character display lights and 2nd digit blinks.)

(3) In the same way, input the characters as desired.
(Digits are lit.)

* During preset channel reception, when the characters are input, the character data is stored into the preset channel currently received.

3. Press the MEMORY button. (The MEMORY indicator lights.)
4. Press the PRESET FUNCTION button to select "A" or "B".
5. Press one of the numeric keys: The frequency being tuned in and the station name are stored in memory of the digit key.

Listening to a preset station

1. Press the TUNER INPUT SELECTOR button.
2. Press the PRESET FUNCTION button to select "A" or "B" (A, B, C or D).
3. Press a numeric key under which memory has been preset.
4. Adjust the VOLUME controls as preferred.

Record playing

1. Press the PHONO INPUT SELECTOR button.
2. Operate the turntable to play back a record.
3. Adjust the VOLUME controls for your preference.

Listening to the program source connected to the CD/AUX jacks

1. Press the CD/AUX INPUT SELECTOR button.
2. Operate the component connected to the CD/AUX jacks.
3. Adjust the VOLUME controls for your preference.

Tape decks

Tape playback

1. Press the appropriate TAPE (1 or 2) button to select output from a tape deck connected to the TAPE 1 or 2 jacks.
2. Operate the tape deck.
3. Adjust the VOLUME controls to your preference.

Note:
When both buttons (TAPE-1 and TAPE-2) are pressed, TAPE-2 setting has priority.

Recording

1. Press the appropriate INPUT SELECTOR buttons.
2. Set up your tape deck(s) for recording and set the recording level with the controls on your tape deck(s).
3. Adjust listening level at the unit to suit your listening preference.

Tape dubbing

Tape recordings may be duplicated (dubbed) easily using two tape decks connected to the TAPE 1 and 2 jacks.

For example:

1. Connect two tape decks to the TAPE 1 and TAPE 2 jacks.
2. Press the TAPE-1 button.
3. Play back the recorded tape and adjust the recording

levels before starting tape dubbing.

Note

Adjust record levels on the deck that is making the copy using that deck's operating controls.

Listening to video recorder audio sound

1. Press the appropriate VIDEO (1, 2 or 3) button of the INPUT SELECTOR to select output from a video recorder connected to the VIDEO (1, 2 or 3) jacks.
2. Operate the video recorder.
3. Adjust the VOLUME controls for your preference.
4. When a video monitor is connected to the VIDEO MONITOR OUT jack on the rear panel, the picture from the recorder can also be monitored.

Dubbing between three VCRs

Through dubbing

Video dubbing can be performed while listening to any desired source.

- Operate the VIDEO DUBBING switch so that 2►1 or 3►1 is displayed.
  - 2►1 : In this position, direct dubbing from a VCR connected to the VIDEO 2 jacks to a VCR connected to the VIDEO 1 jacks can be performed.
  - 3►1 : In this position, direct dubbing from a VCR connected to the VIDEO 3 jacks to a VCR connected to the VIDEO 1 jacks can be performed.

- **For example:**

When dubbing from VIDEO 2 to VIDEO 1 while listening to record.

1. Operate the VIDEO DUBBING switch so that the 2►1 display is illuminated.

2. Press the PHONO switch of the INPUT SELECTOR switches.

3. Play back the VIDEO 2 VCR as well as set the VIDEO 1 VCR to recording mode.
4. Start record play.

Note:

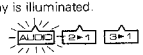
In the Through dubbing operation, graphic equalizer and the synthetic stereo effects cannot be applied to the recording source.

Normal dubbing

While playing back the picture and the sound, dubbing can be performed normally.

In this condition, graphic equalizer and synthetic stereo effect can be applied to the recording audio source.

1. Operate the VIDEO DUBBING switch so that the AUDIO display is illuminated.



2. Select the desired source to be dubbed from VIDEO 1 to 3 with the INPUT SELECTOR.
3. The picture on the TV monitor and the sound from the speaker are output to the VIDEO 1 and VIDEO 2 REC jacks.

Dubbing modes when each VIDEO source is selected are as follows:

Selector	Dubbing mode
• VIDEO 1	VIDEO 1 → VIDEO 2
• VIDEO 2	VIDEO 2 → VIDEO 1
• VIDEO 3	VIDEO 3 → VIDEO 1*
	VIDEO 3 → VIDEO 2*

*: When VIDEO 3 is selected, simultaneous dubbing to VIDEO 1 and VIDEO 2 is possible.

4. Operate each VCR for dubbing.

For example:

When playing jack a VCR connected to VIDEO 1 jacks while dubbing to a VCR connected to VIDEO 2.

1. Operate the VIDEO DUBBING switch so that the AUDIO display is illuminated.

2. Set the INPUT SELECTOR to VIDEO 1.

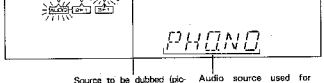
3. Start playback the VIDEO 1 VCR as well as set the VIDEO 2 VCR to record mode.

Audio injection

During video dubbing, the sound from the VCR can be replaced with the desired audio source without affecting the picture.

At this, graphic equalizer and synthetic stereo effect can be applied to the recording audio source.

1. Operate the VIDEO DUBBING switch so that the AUDIO display is illuminated.
2. Select the desired source to be dubbed, from VIDEO 1 to 3 with the INPUT SELECTOR.
   (At this time, the selected video number is lit on the VIDEO display.)
3. Select the desired audio source for Audio Injection with the INPUT SELECTOR.
4. Operate each VCR for dubbing.



Source to be dubbed (picture only)

Audio source used for Audio Injection (When TAPE 2 is selected, the TAPE 2 sound is prior to another.)

For example:
When dubbing from a VCR (or videodisc player) connected to VIDEO 3 jacks to VIDEO 1 VCR, and record sound is used for Audio Injection.

1. Operate as described above so that the display becomes as shown in the figure above.
2. Play back the VIDEO 3 VCR (or videodisc player) as well as set the VIDEO 1 VCR to the recording mode.

Synthetic stereo effect
Simulated stereo effect can be applied to the monaural source selected by the INPUT SELECTOR.
Play back the program source (monaural) and set the SYNTHETIC STEREO button to ON.
The sound with the synthetic stereo effect can be recorded onto an audio tape deck. (TAPE 1, VIDEO 1 and/or VIDEO 2.)

Graphic equalizer operation

1. Select the desired source and play back it.
2. Press the EQUALIZER button to ON.
3. Slide the equalizer level control knobs so that the equalized sound is heard from the speakers as desired.
4. The equalized sound sources can be recorded onto the tape (cassette) deck connected to the TAPE-1 jacks, VIDEO 1 and/or VIDEO 2 jacks on the rear panel of this unit.

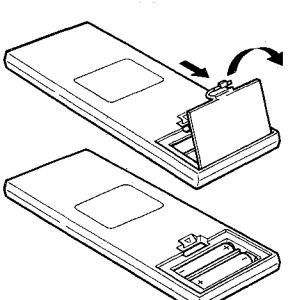
Never turn off the power of the unit in the middle of dubbing.

Operating procedure of the remote control unit (Except for KR-V45)

Battery
Load the supplied 2 AA, R6 batteries as shown below.

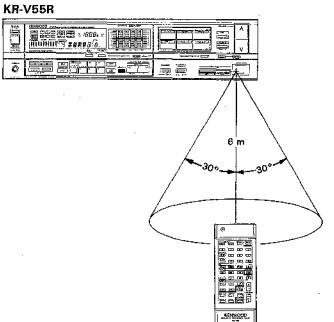
1. Open the battery compartment lid.
2. Load the batteries, observing the polarities.

When the operation indicator of the remote control unit does not light even when a button is pressed, the batteries may be exhausted. Replace with new batteries.

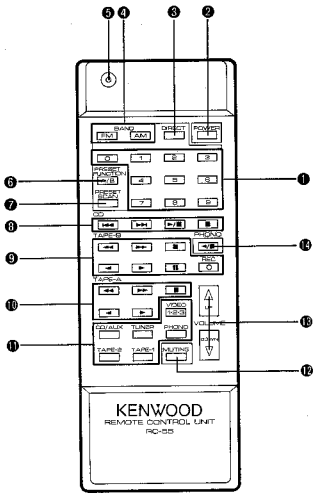


Remote control unit operation range

KR-V55R



REMOTE CONTROL UNIT: Controls, indicators and their functions



❶ Direct access tuning/preset buttons
Use these button to:
1) input directly the digits of frequencies, or
2) store and recall frequencies in the preset memory.

❷ POWER switch
The same function as the REMOTE switch ❶ on the main unit front panel.

❸ DIRECT button
Press this button while listening to the radio broadcast to set the unit to the direct tuning mode so that the frequency of the desired station can be entered with the numeric buttons.

❹ BAND (FM/AM) select buttons
The same function as the BAND selector buttons ❸ on the main unit front panel.

❺ Opration indicator
Flashes when a button is pressed on the remote control unit.

❻ PRESET FUNCTION button
The same function as the PRESET FUNCTION button ❻ on the main unit front panel.

❼ PRESET SCAN button
The same function as the PRESET SCAN button ❽ on the main unit front panel.

❽ DP-850 (CD player) remote control buttons

- **STOP key (■)**
  When this key is pressed during play, the play stops. And when the play program is stored in memory, the memory contents will be cancelled.
  The repeat set will be cancelled at the same time.
- **PLAY/PAUSE key (►/II)**
  When this key is pressed, the PLAY indicator lights and the play starts. When it is pressed again, the PAUSE indicator lights and the unit enters to the pause mode.
  When the key is pressed with the tray opened, the tray is closed and then the play starts after the disc information (TOC) is read out.
  If the tunes are programmed using the MEMORY switch, the memory play will be started.
  - When there is no disc on the tray, or when the disc is loaded upside down (with its recorded surface up), the tray will be opened again.
- **Up key (►►|)**
  When this key is pressed during play, the pickup advances to the beginning of the next tune. When it is kept on pressing, the tune is advanced one by one.
  In the stop mode, when it is pressed, the displayed track number is increased one by one.
- **Down key (|◄◄)**
  When this key is pressed during play, the pickup returns to the beginning of the tune being played. When it is pressed successively, the pickup returns to the beginning of the previous tune one by one.
  In the stop mode, when it is pressed the displayed track number is decreased one by one.

❾ TAPE-B KX-95W (B-deck)/KX-75R (tape deck) remote control buttons

- **Fast reverse button (◄◄)**
  Press to rewind tape. Tape will move from the right reel to the left reel at high speed. When this button is pressed during playback, tunes are skipped in the reverse direction each time the button is pressed.
- **Fast forward button (►►)**
  Press to rapidly advance the tape. When this button is pressed during playback, tunes are skipped in the forward direction each time the button is pressed.
- **Stop button (■)**
  Press to stop tape travel. This will also release the previous mode of operation.
- **Reverse play button (◄)**
  Press to play the tape in the reverse direction (side B).

- **Forward play button (►)**
  Press to play the tape in the forward direction (side A).
- **REC button (●)**
  Press this button to start recording. The indicator lights. It is not necessary to press the forward play (►) or reverse play (◄) button. The recording mode can only be entered from the stop mode. The recording direction is indicated by the direction indicators (◅ ▻). To change the recording direction, press the forward play (►) or reverse play (◄) button, press the stop button (■), then press this button. When this button is pressed once, the unit enters the recording mode and recording starts.
  The input source selector cannot be switched during recording.
- **PAUSE button (❚❚)**
  When this button is pressed during recording, the recording stops temporarily.
  To resume recording, press the REC button.

⑩ TAPE-A KX-95W (A-deck) (tape deck) remote control buttons

- **Fast reverse button (◄◄)**
  Press to rewind tape. Tape will move from the right reel to the left reel at high speed. When this button is pressed during playback, tunes are skipped in the reverse direction each time the button is pressed.
- **Fast forward button (►►)**
  Press to rapidly advance the tape. When this button is pressed during playback, tunes are skipped in the forward direction each time the button is pressed.
- **Stop button (■)**
  Press to stop tape travel. This will also release the previous mode of operation.
- **Reverse play button (◄)**
  Press to play the tape in the reverse direction (side B).
- **Forward play button (►)**
  Press to play the tape in the forward direction (side A).

⑪ Input selector buttons
The same function as the INPUT SELECTOR buttons ⑫, TAPE-1 button ⑱ and TAPE-2 button ⑲ on the main unit front panel.

⑫ MUTING button
The same function as the MUTING button ㉑ on the main unit front panel.

⑬ VOLUME controls
The same function as the VOLUME controls ⑰ on the main unit front panel.

⑭ KD-75F/KD-65F (turntable) remote control button

- **PLAY/CUT button**
  When the turntable power is ON, press this button for play/cut operation.

Auto function
When the PLAY button (►) of the DP-850, KX-95W/KX-75R, KD-75F/KD-65F or RC-55, the INPUT SELECTOR of the KR-V55R is switched over, and the component previously played is stopped automatically.

Example:
When the PLAY button of the DP-850 (or RC-55) is pressed during playback of KD-75F/KD-65F...

1. The DP-850 enters start play.
2. The INPUT SELECTOR of the KR-55R is changed to CD automatically.
3. The KD-75F/KD-65F enters the stop mode.

Notes:

- The Auto Function is available with the KD-75F/KD-65F, DP-850 and KX-95W/KX-75R, and effective only when their synchro terminals are connected to this unit.
- In the KR-V55R, the Auto Function with TAPE is effective only for TAPE 1.

In case of difficulty

If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

Symptom	Cause	Remedy
No power, no sound.	1. Power cord not plugged in. 2. Poor connection at wall outlet. Power outlet inactive.	1. Check plug contact. 2. Check outlet using a lamp or other appliance (outlet may be controlled by a wall switch).
No sound from left and right.	1. Speaker cords disconnected. 2. Speakers switched off.	1. Check speaker connections. 2. Check speaker switch.
Sound from left or right, but not both.	1. Poor speaker connections. 2. Defective speaker.	1. Check connections at both ends of speaker cord. 2. Reverse speakers. If problem stays with speaker, have speaker checked.
Occurs during AM reception only	**Cause**	**Remedy**
High-frequency whistle especially at night.	Interference from TV set.	Turn off TV set, if problem disappears try relocating TV set.
Intermittent buzz or cracking sound.	Lightning. Fluorescent lamps starting. Appliance or furnance starting.	No remedy. Try reversing AC plug. Try reversing AC plug.
Occurs during FM reception only	**Cause**	**Remedy**
Hiss that gets worse in stereo reception.	Very weak antenna input signal.	Consider an outdoor antenna installation. In areas remote from the transmitter a 5 to 8 element antenna designed exclusively for FM is suggested.
Rhythmic static or popping noises.	Automobile ignition noise, especially evident when receiving weak signals.	Review antenna installation. Site the antenna as far from the street as possible and use coaxial cable.
STEREO indicator fails to light during stereo broadcast.	Another possible effect of a very weak signal.	Antenna system needs attention (see above).

Specifications

(IHF'66)
AUDIO SECTION
Power Output

55 watts per channel minimum RMS, both channel driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03 % total harmonic distortion

58 watts per channel minimum RMS, both channel driven at 8 ohms at 1 kHz with no more than 0.03 % total harmonic distortion

Total Harmonic Distortion
(20 Hz-20,000 Hz, 8 ohms) ..... 0.03 % at 55 watts
(1 kHz, 8 ohms) ..... 0.007 % at 55 watts
Inter modulation Distortion ... 0.03 % at 55 watts
Input Sensitivity/Impedance
PHONO (MM) ..... 2.5 mV/47 kohms
CD/AUX, TAPE, VIDEO .. 150 mV/47 ohms
Frequency Response
PHONO (RIAA standard Curve) ..... 20 Hz-20,000 Hz...±0.5 dB
TAPE, CD/AUX ..... 10 Hz-60,000 Hz...+0 dB, −3 dB
Signal to Noise Ratio
PHONO (MM) ..... 73 dB
CD/AUX, TAPE ..... 100 dB
VIDEO ..... 90 dB
Graphic Equalizer
Center Frequency ..... 63 Hz, 300 Hz, 1 kHz, 3 kHz, 10 kHz
Control Range ..... ±12 dB

VIDEO SECTION
Inputs **VIDEO 1,2,3** ..... 1 Vp-p, 75 ohms unbalanced
Output **VIDEO 1,2** ..... 1 Vp-p, 75 ohms unbalanced
MONITOR VIDEO OUT ..... 1 Vp-p, 75 ohms unbalanced

FM TUNER SECTION
Tuning Frequency Range... 87.5 MHz-108 MHz
Antenna Impedance..... 300 ohms balanced & 75 ohms unbalanced
Usable Sensitivity..... 10.8 dBf (1.9 μV)
50 dB Quieting Sensitivity
MONO ..... 14.2 dBf (2.8 μV)
STEREO ..... 37.1 dBf (39 μV)
Signal to Noise Ratio at 65 dBf
MONO ..... 78 dB
STEREO ..... 72 dB
Total Harmonic Distortion at 1,000 Hz
MONO ..... 0.09 %
STEREO ..... 0.12 %
Frequency Response..... 30 Hz-15,000 Hz +0.5 dB, −2 dB
Stereo Separation..... 45 dB at 1,000 Hz
Selectivity ..... 55 dB at 400 kHz
Capture Ratio ..... 1.2 dB
Image Rejection Ratio..... 43 dB
IF Rejection Ratio..... 86 dB
Spurious Rejection Ratio ... 84 dB
AM Suppression Ratio..... 65 dB

AM TUNER SECTION
Tuning Range
530 kHz-1,610 kHz
Usable Sensitivity..... 10 μV (400 μV/m)
Signal to Noise Ratio ..... 50 dB
Total Harmonic Distortion . 0.3 %
Selectivity ..... 25 dB

GENERAL
Power Requirement ..... 60 Hz, 120 V...USA & CANADA Model
Power Consumption ..... 2.2 A...USA & Canada
AC Outlet ..... Switched × 3 (200 W)
Dimensions..... 420(W)×111(H)×319.5(D)mm (16-9/16×4-3/8"×12-9/16")
Weight (Net) ..... KR-V55R...6.7 kg (14.8 lb) KR-V45...6.7 kg (14.8 lb)

Note:
We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.